

I Claim:

1. An activity enhanced liquid system for a contained liquid volume located in a transition region comprising:

5 a gate pivotally mounted in a liquid container; and
 a dispensing device secured to said gate with said dispensing device comprising a dispensing container having a liquid dispensable material contained therein for dispensing the liquid dispensable at a first rate when the gate is stationary condition and at a second rate the gate pivots in response to waves in the liquid system.

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2. The liquid system of claim 1 wherein the containers are removable mounted on said gate and each of the containers are located below a liquid line of the liquid container.

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3. The liquid system of claim 1 including at least two containers on said gate with at least one of said containers containing an ion generation material.

4. The liquid system of claim 1 including at least two containers on said gate with at least one of said containers containing a halogen.

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5. The liquid treatment system of claim 1 including a pair of slotted channels for holding a dispensing container on said gate and said gate comprises a weir in a swimming pool.

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6. A liquid system for a contained liquid volume comprising:

 a liquid conduit;
 a dispensing device locate in a transition region with said dispensing device secured to said liquid conduit with said dispensing device comprising a dispensing container having

a liquid dispensable material contained therein for dispensing the liquid dispensable material at a first rate when there is no liquid flow through the liquid conduit and at a second rate in response to liquid flowing through the liquid conduit.

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7. The liquid system of claim 6 including a member for frictionally engaging said liquid inlet and said dispensing device to hold the dispensing in the liquid flow path as liquid enters said inlet.

10 8. The liquid system of claim 6 including a diverter for controlling the amount of liquid flowing through said dispensing device.

9. The liquid system of claim 6 wherein the dispensing device includes a set of fingers for frictionally engaging the liquid inlet.

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10. The liquid system of claim 6 wherein the dispensing material comprises an ion generation material.

20 11. The liquid system of claim 6 wherein the conduit is a liquid inlet for receiving a liquid stream from a body of water.

12. The liquid system of claim 6 wherein the conduit is a liquid outlet for directing a stream of liquid into a body of water.

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13. The liquid system of claim 6 wherein the dispenser housing is mounted in the conduit.

14. The liquid system of claim 6 wherein the dispenser housing is mounted on a container wall.

5 15. A liquid system for a contained liquid volume comprising:
a filter housing;
a filter having an end cap located in said housing;
a stand positioned proximate said filter;
a dispensing device secured to said stand with said dispensing device comprising a
10 dispensing container having a liquid dispensable material contained therein for dispensing the liquid dispensable material at a first rate when the there is no flow past the filter and at a second rate in response to liquid flowing through the filter.

16. The liquid system of claim 15 including a central passage located in the end cap;
15 a support member, said support member having a resilient base for securement to said end cap.

17. The liquid system of claim 15 wherein the dispensing material comprises an ion yielding material.

20 18. The liquid system of claim 15 including at least two dispensing devices on said stand for holding at least two dispensing devices thereon.

25 19. The liquid system of claim 18 wherein at least one of the dispensing devices contains a halogen and the other dispensing device includes a container for holding the liquid dispensable material therein, with the container having an outlet passage for liquid to

flow therethrough while maintaining undispersed liquid dispensable material in the container.

20. A liquid system for a contained liquid volume comprising:

5 a liquid filter housing having a chamber therein;
a cap on said liquid filter housing, said cap having an opening therein for mounting a dispenser thereto with the dispenser able to permit liquid flowing therethrough to generate the dispersant at a second rate when the liquid is flowing through said liquid filter housing and at a first rate when the liquid is not flowing though said liquid filter housing.

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21. The liquid system of claim 20 including a dispenser having a set of threads thereon for thread engagement with a set of threads extending around the opening in said cap.

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22. The liquid system of claim 20 including a dispenser having a housing containing an ion yielding material.

23. The liquid system of claim 20 including a dispenser having a flange and a sealing ring for sealing the dispenser to said cap.

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24. The liquid system of claim 20 wherein at least two dispensers are mounted in said cap with each extending partially into the chamber.

25. The liquid system of claim 20 wherein the dispensers contain a finger grip to permit to hand removal of the dispensers from the filter cap.

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26. The liquid system of claim 20 wherein the filter is located on a high pressure side of a filter housing.

27. The liquid system of claim 20 wherein the filter is located on the low pressure side of a filter housing.